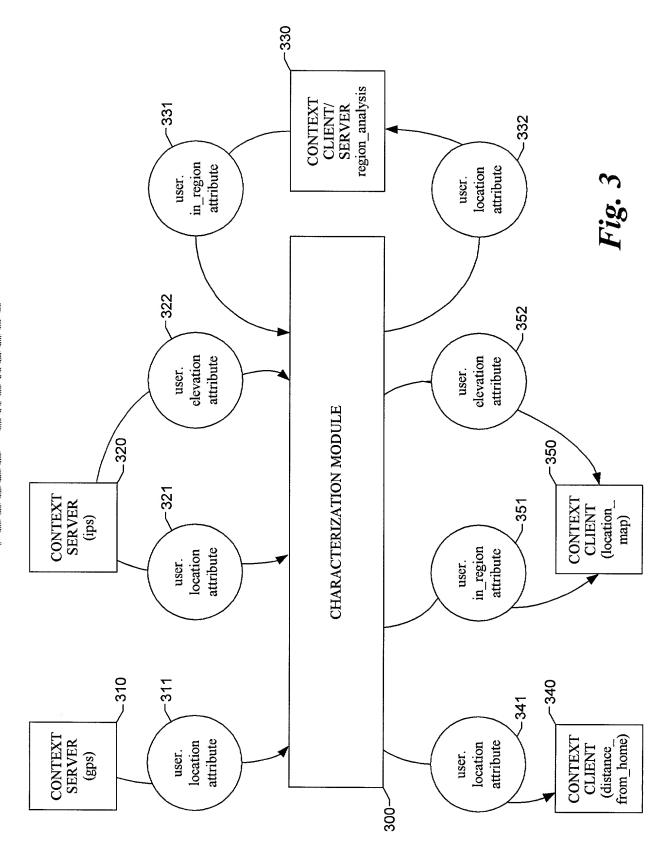


Fig. 2



		٠			context server table	7.400
	context server name	version	installation date	filename		2
401 gps	sds	1	2/10/2000	gps.exe	(reference)	
402 ips	ips	1	2/21/2000	ips.exe	(reference)	
403/	403 location_region_analysis	I	2/10/2000	l_r_a.exe	(reference)	
	411	412	12 413	414	415	5
			Fig. 4			

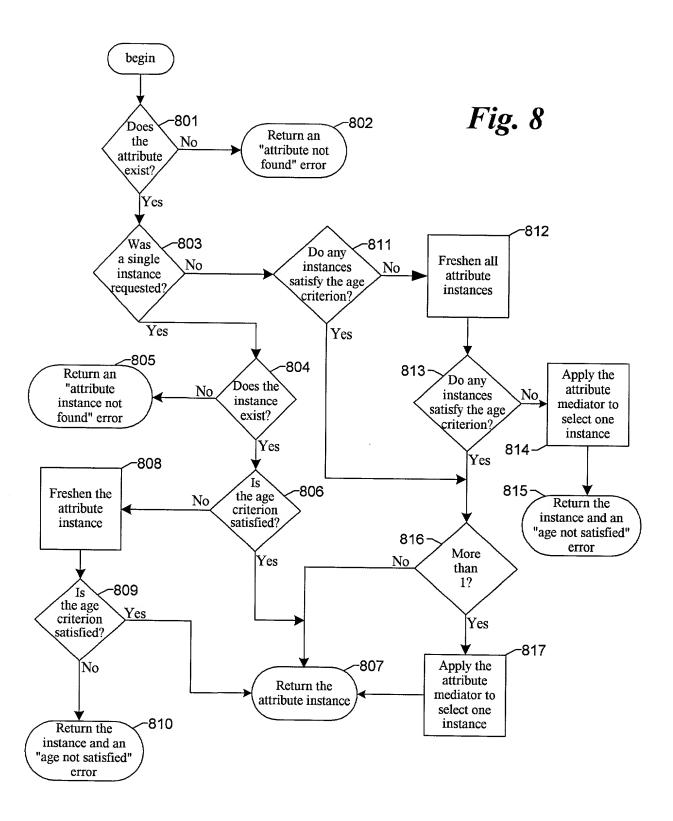
number of context clients consuming					-517
cont	2	2	_	0	
units	degrees/minutes	degrees/minutes	meters	none	-516
timestamp	13:11:04.023 2/22/2000	13:11:01.118 2/22/2000	13:11:01.118 2/22/2000	none	-515
uncertainty	0°.09°	0°.021°	.5	none	-514
value	47° 38.73° N, 122° 18.43° W	47° 38.745° N, 122° 18.424° W	22	none	-513
context server name	sds	ips	ips	location_region_ analysis	- 512
attribute name	user.location	user.location	user.elevation	user.in_region	-511
	501	505	503	504	

Fig. 5

600		context client table
	context clent name	message handler
601 _/	601 location map	(reference)
602	602 distance_from_home	(reference)
603	603 region analysis	(reference)
	Fig. 6	. 6

700						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
701	user.location	gps	47° 38.73° N, 122° 18.43° W	.60° 0	13:11:04.023 2/22/2000	degrees/minutes	2
702	user.location	ips	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
703	user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
704	user.in_region	location_region_ analysis	none	none	none	none	1
	_711		713	714	_715	_716	_717

Fig. 7



900						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
901	user.location	gps	47° 38.73° N, 122° 18.43° W	.00°	13:11:04.023 2/22/2000	degrees/minutes	2
905	user.location	ips	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
903	user.elevation	ips	22.25	5.	13:11:06.565 2/22/2000	meters	1
904	user.in_region	region_analysis	none	none	none	none	
	-911	912	-913	914	-915	916	_917
			Fi	Fig. 9			

condition table _1016 logical operator 1 comparison value ~1015 TRUE second logical parameter 1014 none _1013 first logical parameter user.in_region context client name ~1012 region_analysis condition name **_1011** in_region_true 1001 1000

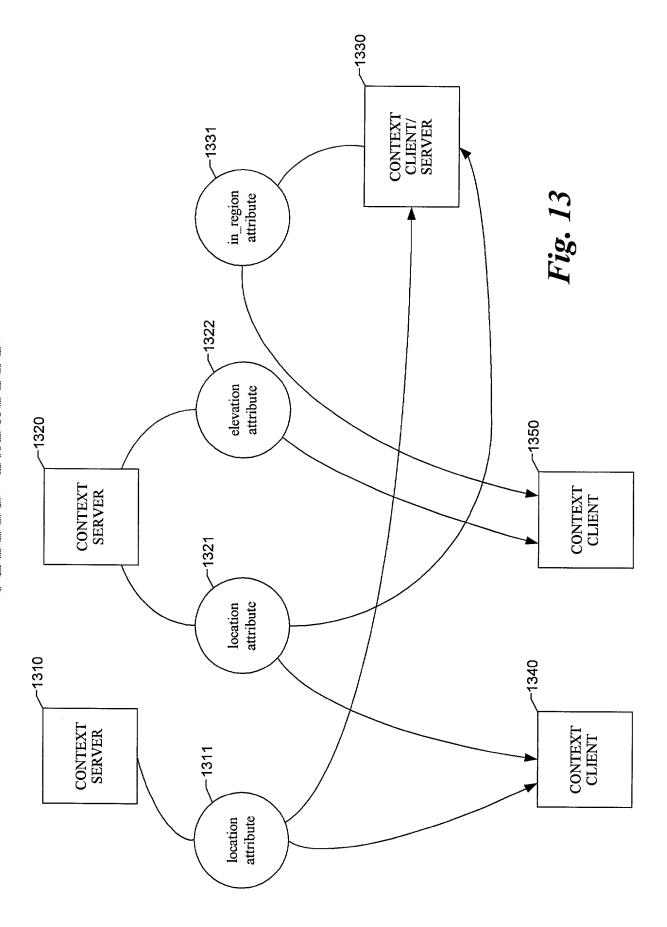
Fig. 10

1100 \							condition monitor table	nitor table
	condition monitor name	context client name	condition name behavior frequency	behavior	frequency	condition last evaluated	condition last trigger handler evaluated reference	stopped
1101/	region_boundary_ 1101 crossed	region_analysis	in_region_true	TRUE or 30 FALSE	30	13:11:29.101 2/22/2000	(reference)	no
	_1111	_1112	_1113	-1114	11115	5 -1116	11117	11118

Fig. 11

nitor table	stopped	yes	1218
condition monitor table	condition name behavior frequency condition last trigger handler stopped evaluated reference	(reference)	1217
	condition last evaluated	13:11:59.101 (reference) 2/22/2000	5 -1216
	frequency		4 _1215
	behavior	TRUE or 30 FALSE	1214
	condition name	in_region_true	1213
	context client name	region_analysis	_1212
	condition monitor name	region_boundary_ 1201~ crossed	_1211
1200 ~		1201	

Fig. 12



	attribute request table	
attribute name	context client name	
user.location	distance_from_home	
user.in_region	location_map	
user location [gps]	location_region_analysis	
user elevation	location_map	
1411	1412	

Fig. 14

User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load
Speed	Speed Fig 15
Direction	Speed Fig. 15 Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive availability	Storage.
Tactile_availability	Total_capacity
Manual_availability	Used
Visual availability	Connectivity.
Oral_availability	Connection_status
Auditory_availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection activity
Happiness	Power.
Sadness	Power source
Anger	Power level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number_close
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place name	Wind direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People present
Floor	Ambient_noise_level
Building	
Address	Ambient_light_level
Street	Days. <pre>previous or future>.</pre>
City	High_temperature
County	Low_temperature
State	Precipitation_type
Country	Precipitation_amount Place. <place name="">. (same as Environment.Local)</place>
Postal Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting to be sent
Blood pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording
· - · · · · - · - · - · - · - · - · - ·	TOOGRAMIE

- 1) User Setting
 - a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
 - b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eves
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands

 - (v) Nose (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

2) Computer

- a) Power
- b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes

Fig. 16

- (2) Voice/Audio
- (3) Eye Tracking
- (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
- ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
- iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
- c) Data
 - Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

